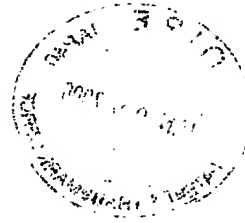


WE CLAIM

1. Process for producing a metal foam body, whereby a gas-containing fused metal is produced and the fused metal is allowed to coagulate under formation of a metal foam body,
in which
the introduced material is melted under atmospheric pressure and thereby and/or subsequently gas is introduced into the fluid metal, whereupon the fluid metal is brought into a mould and allowed to coagulate at least for sometime under reduced surrounding pressure.
2. Process as per claim 1,
in which
at least parts of the introduced material are converted into at least one compound before melting, which emits a gas soluble in the fluid metal in the region of and/or over the melting interval of the same.
3. Process as per claim 2,
in which
the conversion of parts of the introduced material takes place through contact with the gas or gas mixture.
4. Process as per claim 2,
in which
the conversion of parts of the introduced material takes place through contact with aerosol.
5. Process as per one of the claims 2 to 4,
in which
the compound emits gas(es) at a temperature of max. 250°C, preferably max. 150°C, above the melting or coagulating temperature of the metal.



6. Process as per one of the claims 1 to 5,
in which
the introduced material is formed from a light metal, especially magnesium or a magnesium alloy.
7. Process as per one of the claims 1 to 6,
in which
the coagulation of the fluid metal takes place under a surrounding pressure in the range of 0.03 bar to 0.2 bar.
8. Process as per one of the claims 1 to 7,
in which
the mould is pre-heated before introducing the fluid metal.
9. Process as per one of the claims 1 to 8,
in which
a heat-insulated mould is used.
10. Use of die-cast scrap as introduced material in a process as per one of the claims 1 to 9.